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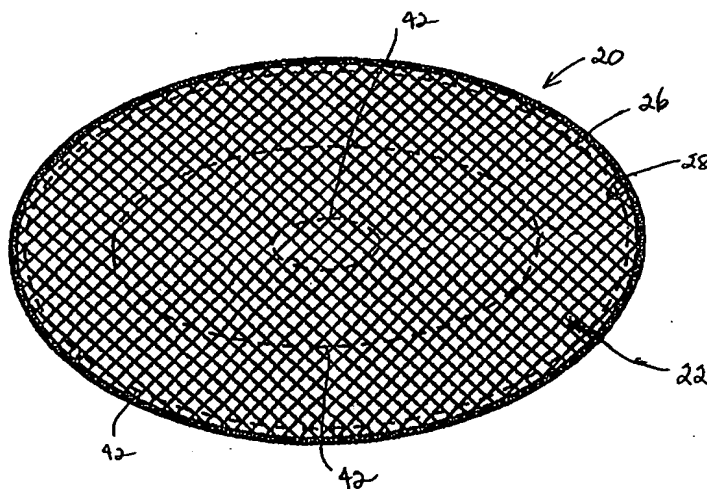
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(54) Title: **IMPLANTABLE PROSTHESIS**



(57) Abstract: An implantable prosthesis and a method of repairing an anatomical defect, such as a tissue or muscle wall defect, by promoting tissue growth thereto, while limiting the incidence of postoperative adhesions between a portion of the prosthesis and tissue or organs. The prosthesis is formed of a biologically compatible, flexible layer of repair fabric suitable for reinforcing tissue or muscle and closing anatomical defects, and a barrier layer for physically isolating at least a portion of one side of the fabric from areas likely to form adhesions. A peripheral barrier extends about at least a portion of the outer peripheral edge of the repair fabric to inhibit adhesions between the outer peripheral edge and adjacent tissue and organs. The repair fabric may include an outer margin that has been melted and resolidified to render the outer peripheral edge substantially impervious to tissue ingrowth. The barrier layer may be joined to the repair fabric with connecting stitches formed from PTFE to inhibit the formation of adhesions thereto.